

AMR Annotation: Special Topics

http://tiny.cc/amrtutorial

AMR

Coordination & Clausal Connectives

Coordination

• We invited the psychics, JFK, and Stalin.

Our invitees: the psychics, JFK, Stalin. (implicit)

Coordination

We invited the psychics, JFK and Stalin.

or, either are like and

Coordination

We invited the psychics, but they were busy.

- We invited the psychics: they were busy. (implicit)
 - When in doubt, use and for implicit connectives.

Sentence Coordination

We invited the psychics. But they were busy.

```
(c / contrast-01
  :ARG2 (b / busy
        :domain (t / they)))
```

Coordination: shared core args

We invited and then disinvited the psychics.

Coordination: shared non-core args

Yesterday we invited and then disinvited the psychics.

Condition

If we invite the psychics, they will attend.

They won't attend unless we invite them.
 (They won't attend if we don't invite them.)

Concession

Although we invited the psychics, they did not attend.

The psychics did not attend, in spite of our invitation.

Cause

The psychics attended because we invited them.

The psychics' attendance was due to our invitation.

Purpose

We invited the psychics so that they would attend.



```
(i / inspire-01
:ARG0 (c / cook-01
```

AMR

Modality, Mood, & Speech Acts

Negation

no worries

```
(w / worry-01
    :polarity -)
```



Imperative

• Don't worry!

```
(w / worry-01
  :mode imperative
  :ARG0 (y / you)
  :polarity -)
```



Politeness

Please don't worry.

```
(w / worry-01
  :mode imperative
  :ARG0 (y / you)
  :polarity -
  :polite +)
```



Vocative

Don't worry, Simba. TODO: coref with vocative & implied "you"?



Quoted Speech

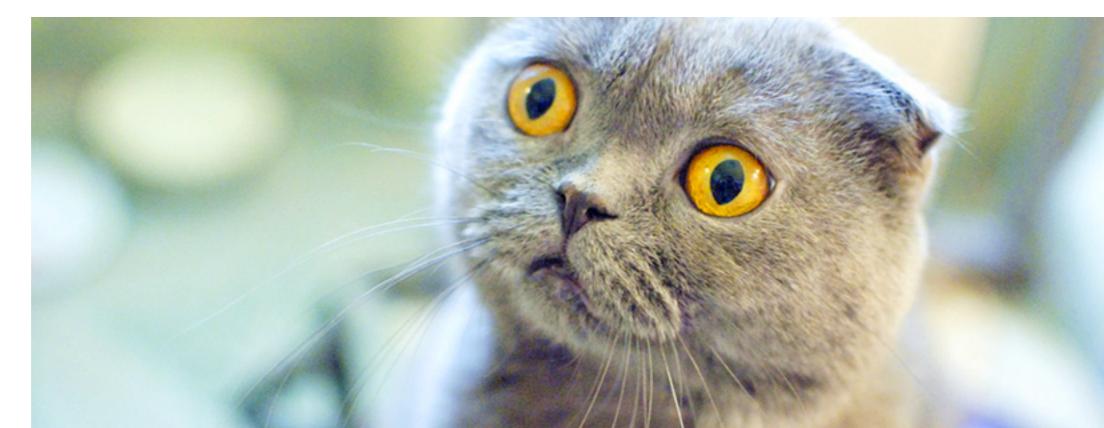
- say-01 is the default for speech if no overt verb (incl. vocatives, "according to", quotation marks)
- Pronouns in direct quotes are replaced with their antecedents if possible

Expressive

Oy!

```
(o / oy
  :mode expressive)
```

 Limited to isolated interjections (and similar utterances lacking a predication)



Questions: yes-no

Are you worried?

```
(w / worry-01
   :ARG0 (y / you)
   :mode interrogative)
```

To be, or not to be?

```
(o / or
  :op1 (e / exist-01)
  :op2 (e2 / exist-01 :polarity -)
  :mode interrogative)
```

Questions: wh

Why worry? (What is the point of worrying?)

```
(w / worry-01
   :ARG0 (y / you)
   :purpose (a / amr-unknown))
```



What's the problem?

```
(p / problem
  :domain (a / amr-unknown))
```

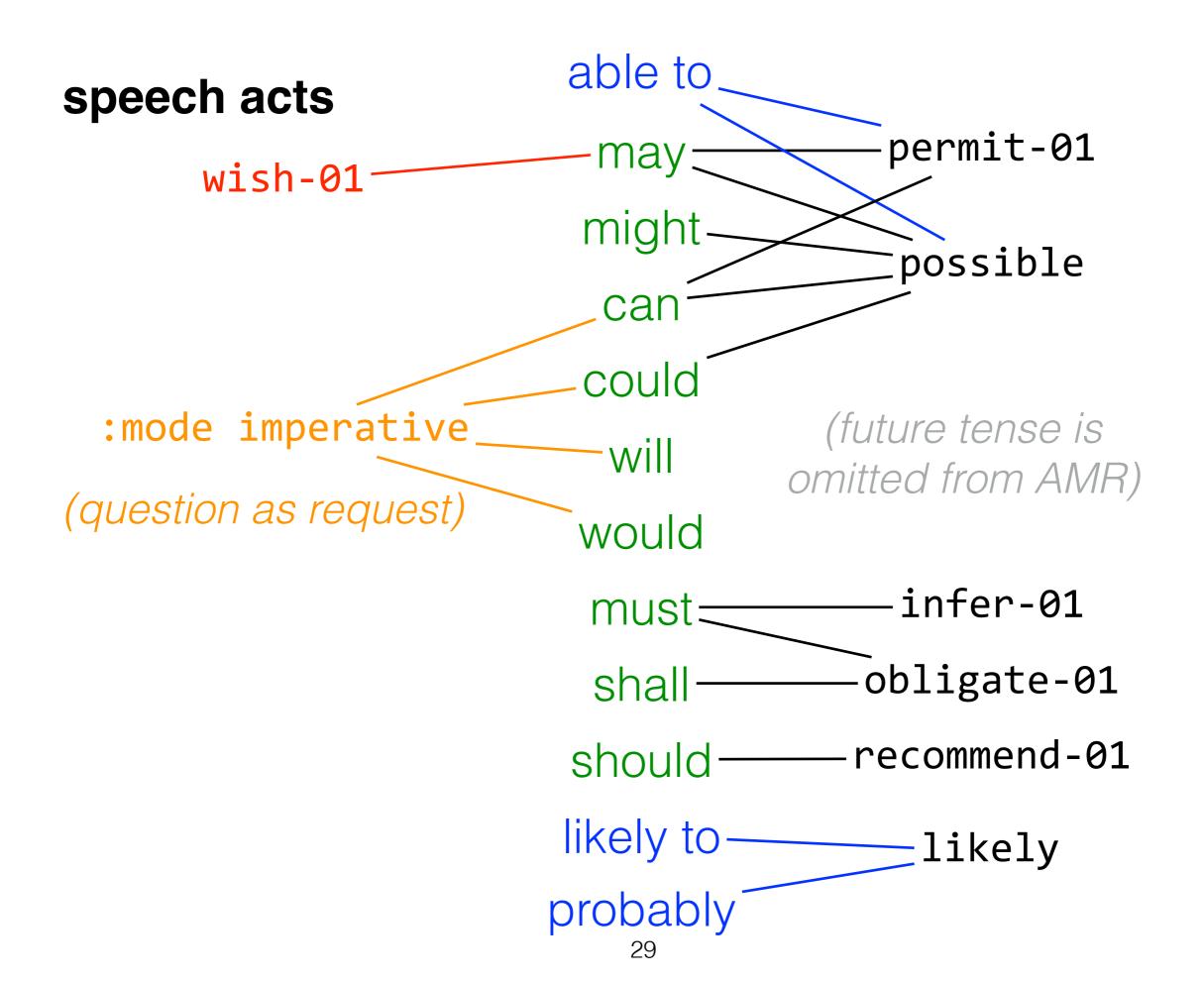
Think of amr-unknown as an *in situ* question pronoun. Structurally, the AMR is the same as a declarative sentence.

How many peppers did Peter Piper pick?

Modal Concepts

You can leave.
 You may leave.
 It's all right for you to leave.

I can see Russia from my house!
 I'm able to see Russia from my house!



AMR

Quantification & Comparison

Quantification

two apples

```
(a / apple
    :quant 2)
```

a lot of apples

```
(a / apple
    :quant (1 / lot))
```

All apples are fruit.

Only explicit quantifiers are included in the AMR.

Apples are fruit.

```
(f / fruit
  :domain (a / apple))
```

Quantification

• two apples or: There are 2 apples.

```
(a / apple
    :quant 2)
```

a lot of apples or: There are lots of apples.

```
(a / apple
   :quant (1 / lot))
```

Existentials are not represented in the AMR.

All apples are fruit.

Apples are fruit.

- The current treatment of comparative constructions is very shallow. (We are working on improvements.)
- (1 ate) more apples than bananas

(I ate) as many apples as bananas

```
(a / apple :quant (q / quantity :degree (e / equal) :compared-to (b / banana)))

Many other kinds of "as...as" are documented in the AMR Dictionary in the
```

Apples are redder than bananas.

```
(r / red
  :domain (a / apple)
  :degree (m / more)
  :compared-to (b / banana))
```

Apples are redder than bananas are yellow.

I like apples less than bananas.

```
(1 / like-01
   :ARG0 (i / i)
   :ARG1 (a / apple)
   :degree (12 / less)
   :compared-to (b / banana)))
```

I like apples less than I like bananas.

```
(1 / like-01
   :ARG0 (i / i)
   :ARG1 (a / apple)
   :degree (12 / less)
   :compared-to (13 / like-01
                     :ARG0 i
                     :ARG1 (b / banana))))
                                 35
```

I like apples more than Johnny Appleseed.

```
(1 / like-01
   :ARG0 (i / i)
   :ARG1 (a / apple)
   :degree (m / more)
   :compared-to (p / person :name (n / :op1 "Johnny" :op2 "Appleseed")))
```

I like apples more than Johnny Appleseed does.